## IN THE CLAIMS

This listing of claims replaces all prior listings:

1. (currently amended) An alkaline battery comprising a cathode mix containing  $\beta$ -nickel oxy-hydroxide as a cathode active material, an anode mix containing zinc as a main component of an anode active material, and an alkaline solution as an electrolyte,

wherein said  $\beta$ -nickel oxy-hydroxide is obtained by chemical oxidation of nickel hydroxide; wherein said  $\beta$ -nickel oxy-hydroxide has a mean particle size in the range of 5 to 50  $\mu$ m; and wherein said  $\beta$ -nickel oxy-hydroxide has an approximately spherical shape of particle; and wherein cumulative pore volume in connection with pore sizes of not larger than 0.5  $\mu$ m in said  $\beta$ -nickel oxy-hydroxide particles is in the range of 10 to 60  $\mu$ l/g.

- 2. (canceled).
- (original) The alkaline battery according to Claim 1, wherein proportion of sulfuric acid radial contained in said β-nickel oxy-hydroxide is in the range of not larger than 0.5% by weight.
- (original) The alkaline battery according to Claim 1, wherein a bottom-sealed cylindrical battery is formed.
- (currently amended) An alkaline battery comprising a cathode mix containing β-nickel oxy-hydroxide and manganese dioxide as cathode active materials, an anode mix containing zinc as a main component of an anode active material, and an alkaline solution as an electrolyte,

wherein said β-nickel oxy-hydroxide is obtained by chemical oxidation of nickel hydroxide; wherein said β-nickel oxy-hydroxide has a mean particle size in the range of 5 to 50 μm; and wherein said manganese dioxide has a mean particle size in the range of 10 to 70 μm; and wherein cumulative pore volume in connection with pore sizes of not larger than 0.5 μm in mixed particles of said β-nickel oxy-hydroxide particles and said manganese dioxide is in the range of 10 to 60 μl/g.

- (original) The alkaline battery according to Claim 5, wherein said β-nickel oxyhydroxide has an approximately spherical shape of particle.
  - 7. (canceled).
- (original) The alkaline battery according to Claim 6, wherein proportion of sulfuric acid radial contained in said β-nickel oxy-hydroxide is in the range of not larger than 0.5% by weight.
- (original) The alkaline battery according to Claim 6, wherein a bottom-sealed cylindrical battery is formed.
- 10. (currently amended) An alkaline battery comprising a cathode mix containing  $\beta$ -nickel oxy-hydroxide and a conductive material as a cathode active material, an anode mix containing zinc as a main component of an anode active material, an alkaline solution as an electrolyte, and a separator disposed between a cathode comprising said cathode mix and an anode comprising said anode mix.

wherein said  $\beta$ -nickel oxy-hydroxide is obtained by chemical oxidation of nickel hydroxide, and

wherein said cathode mix includes a fluorinated resin as a binder; and

wherein cumulative pore volume in connection with pore sizes of not larger than  $0.5 \mu m$  in mixed particles of said  $\beta$ -nickel oxy-hydroxide particles and said conductive material is in the range of 10 to 60  $\mu$ /g.

- (original) The alkaline battery according to Claim 10, wherein an amount of said added fluorinated resin is in the range of 0.1 to 1.0% by weight.
- 12. (original) The alkaline battery according to Claim 10, wherein said fluorinated resin is any one of polytetrafluoroethylene (PTFE), tetrafluoroethylene-hexafluoropropylene copolymer (FEP) and polychlorotrifluoroethylene (PCTFE).

- (original) The alkaline battery according to Claim 10, wherein a porous metal cylinder is provided between said cathode and said separator.
- 14. (original) The alkaline battery according to Claim 13, wherein said porous metal cylinder has a thickness of 50 to 200 µm, and is formed of at least a kind of metal selected from the group constituting of stainless steel, nickel, copper, and tin.
- 15. (original) The alkaline battery according to Claim 13, wherein said porous metal cylinder comprises any one of punching metal, metal net, and expand metal.